

Serial No.: 09/802,794

AMENDMENTS IN THE CLAIMS:

1-25. (Canceled)

26. (Currently Amended) An information recording and reproduction method for an information recording medium, wherein a temperature range indicating a range of apparatus temperatures of an information recording and reproduction apparatus includes a plurality of segmented temperature ranges each individually defined on the information recording medium, the method comprising the steps of:

(a) measuring an apparatus temperature of the information recording and reproduction apparatus;

(b) obtaining a recording and reproduction condition corresponding to a segmented temperature range which includes the measured apparatus temperature; and

(c) performing recording and reproduction based on the obtained recording and reproduction condition,

wherein the step (b) includes the step of acquiring the recording and reproduction condition by adjustment processing.

27. (Original) An information recording and reproduction method according to claim 26, wherein the recording and reproduction condition defines an operation condition when an information recording and reproduction apparatus which can have the information recording medium mounted thereon performs data recording and reproduction.

28. (Canceled)

29. (Currently Amended) An information recording and reproduction method according to claim ~~[28]~~ 26, further comprising the step of:

Serial No.: 09/802,794

(d) recording the recording and reproduction condition on the information recording medium.

30. (Original) An information recording and reproduction method according to claim 26, wherein:

the information recording medium includes a drive information area having drive information including the recording and reproduction condition recorded therein, and,

the step (b) includes the step of reading the recording and reproduction condition recorded in the drive information area.

31. (Original) An information recording and reproduction method according to claim 30, wherein:

the drive information includes version information which indicates a condition at which the recording and reproduction condition is acquired, and

the method further includes the step of:

(e) determining whether the recording and reproduction condition is reusable or needs to be updated, based on the version information.

32. (Original) An information recording and reproduction method according to claim 31, wherein the version information includes history information concerning firmware for an information recording and reproduction apparatus.

33-57. (Canceled)

58. (Currently Amended) An information recording and reproduction apparatus for an information recording medium, wherein a temperature range indicating a range of apparatus temperatures of the information recording and reproduction apparatus includes a plurality of segmented temperature ranges each individually defined on the information recording medium, the apparatus comprising:

Serial No.: 09/802,794

a temperature measuring section for measuring an apparatus temperature of the information recording and reproduction apparatus;

an adjustment information processing section for obtaining a recording and reproduction condition corresponding to a segmented temperature range which includes the measured apparatus temperature; and

a recording and reproduction control section for performing recording and reproduction based on the obtained recording and reproduction condition,

wherein the adjustment information processing section acquires the recording and reproduction condition by adjustment processing.

59. (Original) An information recording and reproduction apparatus according to claim 58, wherein the recording and reproduction condition defines an operation condition when an information recording and reproduction apparatus performs data recording and reproduction.

60. (Canceled)

61. (Currently Amended) An information recording and reproduction apparatus according to claim [60] 58, wherein the adjustment information processing section records the recording and reproduction condition on the information recording medium.

62. (Original) An information recording and reproduction apparatus according to claim 58, wherein:

the information recording medium includes a drive information area having drive information including the recording and reproduction condition recorded therein, and,

the adjustment information processing section reads the recording and reproduction condition recorded in the drive information area.

Serial No.: 09/802,794

63. (Original) An information recording and reproduction apparatus according to claim 62, wherein:

the drive information includes version information which indicates a condition at which the recording and reproduction condition is acquired, and

the adjustment information processing section determines whether the recording and reproduction condition is re-usable or needs to be updated, based on the version information.

64. (Original) An information recording and reproduction apparatus according to claim 63, wherein the version information includes history information concerning firmware for the information recording and reproduction apparatus.

65-77. (Canceled)